

## DRUG PLASMA HALF-LIFE AND URINE DETECTION WINDOW | JANUARY 2019

DRUG, DRUG METABOLITE(S)*	COMMON TRADE AND STREET NAMES, NOTES	PLASMA HALF-LIFE <sup>†</sup>	URINE-DETECTION WINDOW <sup>†</sup>
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STIMULANTS			
Amphetamine	Benzedrine, dexedrine, Adderall, Vyvanse, speed; could be methamphetamine metabolite; if so, typically < 30 percent of parent	7–34 hours	1–5 days
Cocaine	Coke, crack; parent drug rarely observed due to short half-life	0.7–1.5 hours	< 1 day
Benzoylcegonine	Cocaine metabolite	5.5–7.5 hours	1–2 days
Methamphetamine	Desoxyn, methedrine, Vicks inhaler (D- and L-isomers not resolved; low concentrations expected if the source is Vicks); selegeline (Atapryl, Carbox, Eldepryl, Zelapar) metabolite	6–17 hours	1–5 days
Methylenedioxyamphetamine (MDA)	MDA	11–17 hours	1–3 days
Methylenedioxyethylamphetamine (MDEA)	MDEA, MDE, Eve	6–11 hours	1–3 days
Methylenedioxymethamphetamine (MDMA)	MDMA, XTC, ecstasy, Molly	6–10 hours	1–3 days
Methylphenidate	Ritalin, Concerta, Focalin, Metadate, Methylin	1.4–4.2 hours	< 1 day
Ritalinic acid	Methylphenidate metabolite	1.8–2.5 hours	< 1 day
Phentermine	Adipex-P, Lomaira, Qsymia	19–24 hours	1–5 days

OPIOIDS			
Buprenorphine	Belbuca, Buprenex, Butrans, Suboxone, Subutex, Sublocade, Zubsolv	26–42 hours	1–7 days
Norbuprenorphine, Glucuronides	Buprenorphine metabolites	15–150 hours	1–14 days
Codeine	Included in many preparations; morphine metabolite; may be a contaminant if < 2 percent of morphine	1.9–3.9 hours	1–3 days
Fentanyl	Actiq, Duragesic, Fentora, Lazanda, Sublimaze, Subsys, lonsys	3–12 hours	1–3 days
Norfentanyl	Fentanyl metabolite	9–10 hours	1–3 days
Heroin	Diacetylmorphine, dope, smack, dust; parent drug not detected.	0.1–0.25 hours	< 1 day
6-acetylmorphine	Heroin metabolite; 6-monoacetylmorphine, 6-MAM		
Hydrocodone	Anexsia, Damason-P, Hycodan, Lorcet, Lortab, Maxidone, Norco, Panacet, Vicodin, Zydone; codeine metabolite; may be a contaminant if < 2 percent of oxycodone	3.4–8.8 hours	1–3 days
Norhydrocodone	Hydrocodone metabolite		1–3 days
Hydromorphone	Dilaudid, Exalgo; morphine and hydrocodone metabolite	1.5–3.8 hours	1–3 days
Meperidine	Demerol, Mepergan	2–5 hours	1–2 days
Normeperidine	Meperidine metabolite	18–24 hours	1–4 days
Methadone	Dolophine, Methadose	15–55 hours	1–14 days
EDDP	Methadone metabolite; 2-ethylidene-1,5-dimethyl-2,2-diphenylpyrrolidine	15–55 hours	1–14 days
Morphine	Included in many preparations; Astromorph, Avinza, DepoDur, Duramorph, Kadian, MS Contin; poppy seeds (low concentrations expected); heroin metabolite	1.3–6.7 hours	1–3 days
Oxycodone	Oxycontin, Roxicodone, Xtampza (with acetaminophen: Endocet, Percocet, Roxicet; with aspirin: Endodan, Percodan, Roxiprin; with ibuprofen: Combunox)	3–6 hours	1–3 days
Noroxycodone	Oxycodone metabolite		1–3 days
Oxymorphone	Numorphan, Opana; oxycodone metabolite	7.5–9.5 hours	1–3 days
Noroxymorphone			1–3 days
Propoxyphene	Darvon, Wygesic (with acetaminophen: Darvocet, Digesic)	8–24 hours	1–4 days
Norpropoxyphene	Propoxyphene metabolite	16–30 hours	1–4 days
Tapentadol	Nucynta	4 hours	1–3 days
N-Desmethyltapentadol, Tapentadol-O-sulfate	Tapentadol metabolites		1–3 days
Tramadol	Ultram	4–8 hours	1–4 days
O-Desmethyltramadol, N-Desmethyltramadol	Tramadol metabolites	4–10 hours	1–3 days

\* A metabolite is an end product that is eliminated and remains after a drug is modified (metabolized) by the body.  
<sup>†</sup> Detection limits and plasma half-lives should be considered estimates.  
 Numerous factors can affect these numbers; call the laboratory to discuss.  
<sup>i</sup> Based on lowest concentration reported by GC-MS or LC-MS/MS; S/P: serum or plasma (ng/mL); U: urine (ng/mL); N/A: not available.

DRUG, DRUG METABOLITE(S)*	COMMON TRADE AND STREET NAMES, NOTES	PLASMA HALF-LIFE <sup>†</sup>	URINE-DETECTION WINDOW <sup>†</sup>
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SEDATIVE-HYPNOTICS			
Alprazolam	Xanax	6–27 hours	1–4 days
Alpha-hydroxyalprazolam	Alprazolam metabolite	13–20 hours	1–4 days
Amobarbital	Formerly known as amylobarbitone or sodium amytal	8–42 hours	1–7 days
Butalbital	Fioricet, Fiorinal, Esgic, Axocet	35–88 hours	1–6 days
Carisoprodol	Soma	1–2.5 hours	1–4 days
Clonazepam	Clonopin, Klonopin	19–60 hours	1–4 days
7-amino clonazepam	Clonazepam metabolite	30–92 hours	1–4 days
Chlordiazepoxide	Librium, Paxipam, Tranxene, Centrax, Valium; metabolite of several drugs: chlorodiazepoxide (Librium), clorazepate (Tranxene), diazepam, halezepam (Paxipam), prazepam (Centrax)	85–110 hours	1–10 days
Nordiazepam		36–200 hours	1–10 days
Oxazepam	Serax; nordiazepam, temazepam metabolite	4–11 hours	1–7 days
Diazepam	Valium, Valrelease	21–37 hours	1–7 days
Lorazepam	Ativan	9–16 hours	1–7 days
Midazolam	Versed	1–4 hours	1–2 days
Alpha-hydroxymidazolam	Midazolam metabolite		1–2 days
Pentobarbital	Nembutal	15–50 hours	1–21 days
Phenobarbital	Donnatal, Luminal	2–6 days	1–16 days
Secobarbital	Seconal	15–42 hours	1–4 days
Temazepam	Normison, Restoril; diazepam metabolite	3–13 hours	1–4 days
Zolpidem	Ambien	2–3 hours	1–3 days

OTHER			
11-Nor-9-Carboxy-Delta-9-Tetrahydrocannabinol	Marinol, dronabinol, marijuana, weed, cannabis, ganja, hashish, pot, THC; cannabinoid metabolite	4–12 hours	1–45 days
Nicotine		0.4–1.5 hours	1–3 days
Cotinine			1–7 days
3-OH Cotinine	Nicotine metabolites		
Nornicotine			
Phencyclidine (PCP)	PCP, Sernyl, Sernylan, angel dust	7–46 hours	1–7 days

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